

5. The medium composition according to claim 1, wherein the adherent cell is a stem cell.

6. The medium composition according to claim 5, wherein the stem cell is a mesenchymal stem cell.

7. The medium composition according to claim 5, wherein the suspension culture is for proliferating the stem cell, and maintaining pluripotency and chemotacticity of the stem cell.

8. A method for culturing an adherent cell, comprising a step of suspension culturing the adherent cell in a medium composition comprising

- (1) a chitin nanofiber; and
- (2) a chitosan nanofiber or a polysaccharide.

9. The method according to claim 8, wherein the medium composition comprises the chitin nanofiber and the chitosan nanofiber, and a ratio of the chitin nanofiber and the chitosan nanofiber in the medium composition is chitin nanofiber:chitosan nanofiber=1:0.5-20.

10. The method according to claim 8, wherein the medium composition comprises the chitin nanofiber and the polysaccharide, and the polysaccharide is selected from the group consisting of methylcellulose, deacylated gellan gum, and sodium alginate.

11. The method according to claim 8, wherein the adherent cell is a cell that self-aggregates under suspension culture.

12. The method according to claim 8, wherein the adherent cell is a stem cell.

13. The method according to claim 12, wherein the stem cell is a mesenchymal stem cell.

14. The method according to claim 12, wherein the suspension culture is for proliferating the stem cell, and maintaining pluripotency and chemotacticity of the stem cell.

15. The method according to claim 8, further comprising the following steps:

- (1) a step of adding a medium composition for suspension culture of an adherent cell, wherein the medium composition comprises (a) a chitin nanofiber and (b) a chitosan nanofiber or a polysaccharide, without performing a treatment for detaching the suspension cultured cells from the chitin nanofiber, and chitosan nanofiber or polysaccharide, and
- (2) a step of subjecting the mixture obtained in step (1) to suspension culture.

16. A method for producing a cell secretion product, comprising a step of suspension culturing an adherent cell in a medium composition comprising

- (1) a chitin nanofiber; and
- (2) a chitosan nanofiber or a polysaccharide.

17. The method according to claim 16, wherein the medium composition comprises the chitin nanofiber and the chitosan nanofiber, and a ratio of the chitin nanofiber and the chitosan nanofiber in the medium composition is chitin nanofiber:chitosan nanofiber=1:0.5-20.

18. The method according to claim 16, wherein the medium composition comprises the chitin nanofiber and the polysaccharide, and the polysaccharide is selected from the group consisting of methylcellulose, deacylated gellan gum, and sodium alginate.

19. The method according to claim 16, wherein the adherent cell is a cell that self-aggregates under suspension culture.

20. The method according to claim 16, wherein the adherent cell is a stem cell.

21. The method according to claim 20, wherein the stem cell is a mesenchymal stem cell.

22. The method according to claim 16, wherein a concentration of the serum in the medium composition is not more than 2%.

23. The method according to claim 16, wherein the cell secretion product is at least one selected from the group consisting of a low-molecular-weight compound, a protein, a nucleic acid, and a cell secretion vesicle.

24. A medium composition for suspension culture of an adherent cell, comprising a poly(1,4)-N-acetyl- $\beta$ -D-glucosamine nanofiber having a specific acetylation degree, wherein the specific acetylation degree is 5-70%.

25. The medium composition according to claim 24, wherein a concentration of the poly(1,4)-N-acetyl- $\beta$ -D-glucosamine nanofiber having the specific acetylation degree in the medium composition is 0.0001-0.2% (w/v).

26. The medium composition according to claim 24, wherein the adherent cell is a cell that self-aggregates under suspension culture.

27. The medium composition according to claim 24, wherein the adherent cell is a stem cell.

28. The medium composition according to claim 27, wherein the stem cell is a mesenchymal stem cell.

29. The medium composition according to claim 27, wherein the suspension culture is for proliferating the stem cell, and maintaining pluripotency and chemotacticity of the stem cell.

30. A method for culturing an adherent cell, comprising a step of suspension culturing the adherent cell in a medium composition comprising poly(1,4)-N-acetyl- $\beta$ -D-glucosamine nanofiber having a specific acetylation degree, wherein the specific acetylation degree is 5-70%.

31. The method according to claim 30, wherein a concentration of the poly(1,4)-N-acetyl- $\beta$ -D-glucosamine nanofiber having the specific acetylation degree in the medium composition is 0.0001-0.2% (w/v).

32. The method according to claim 30, wherein the adherent cell is a cell that self-aggregates under suspension culture.

33. The method according to claim 30, wherein the adherent cell is a stem cell.

34. The method according to claim 33, wherein the stem cell is a mesenchymal stem cell.

35. The method according to claim 33, wherein the suspension culture is for proliferating the stem cell, and maintaining pluripotency and chemotacticity of the stem cell.

36. The method according to claim 30, further comprising the following steps:

- (1) a step of adding a medium composition for suspension culture of an adherent cell, wherein the medium composition comprises a poly(1,4)-N-acetyl- $\beta$ -D-glucosamine nanofiber having a specific acetylation degree, wherein the specific acetylation degree is 5-70%, without performing a treatment for detaching the suspension cultured cells from the poly(1,4)-N-acetyl- $\beta$ -D-glucosamine nanofiber having the specific acetylation degree, and
- (2) a step of subjecting the mixture obtained in step (1) to suspension culture.